INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY, DOCKET NO. 941004(EP)USC1X

SERIAL NO. 400207 OC

APPLICANT ADRIAN P. WISE ET AL

FILING DATE MARCH 7, 1995

GROUP 2302---

2783

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NW7H	AA	3875391	04/01/75	SHAPIRO ET AL	235	156	11/02/73
744	АВ	4225920	08/30/80	STOKES	364	200	09/11/78
44	AÇ	4228497	10/14/80	GUPTA ET AL	364	200	11/17/77
74	AD	4307447	12/22/81	PROVANZANO ET	364	200	06/19/79
<i>3</i> /4	AE	4467409	08/21/84	POTASH ET AL	364	200	08/05/80
HE	AF	4617657	10/14/86	DRYNAN ET AL	370	60	12/31/84
74	AG	4710866	12/01/87	ZOLNOWSKY ET AL	364	200	10/07/86
74	АН	4809159	02/28/89	SOWA	364	200	01/21/89
74	Al	4811214	03/07/89	NOSENCHUCK ET	364	200	11/14/86
HC _	A.I	4811413	03/07/89	KIMMEL	382	41	10/22/87
JH	AK	4841436	06/20/89	ASANO ET AL	364	200	05/30/86
74	AL	4855947	08/08/89	ZAVSLOWSKI ET	364	200	05/27/87
JH.	AM	4922418	05/01/90	DOLECEK .	364	200	01/15/88
746	AN	4953082	08/28/90	NOMURA ET AL	364	200	02/15/89
7#	AO	4989138	01/29/91	RADOCHONSKI	364	200	05/14/90
744	AP ·	\$043880 ·	08/27/91	YOSHIDA	364	200	01/23/89
46	ΑQ	5184347	02/02/93	Farwell et al.	370	94.1	07/09/91
144	AR	5203003	04/13/93	DONNER	395	800	03/28/91
744	AS	5218436	08/08/93	SUGIYAMA ET AL	358	141	01/23/91
74	AT	5227863	07/13/93	Gilbrey et al.	348	578	08/07/90
714	AU	5297263	03/22/94	OHTSUKA ET AL	395	375	04/17/92
45 74°	AV	5301344	04/05/94	KOLCHINSKY	395	800	01/29/91

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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ADRIAN P. WISE ET AL

FILING DATE MARCH 7, 1995

APPLICANT

GROUP 3202

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ISSUE FILING DATE PATENT NUMBER DATE PATENTEE CLASS SUBCLASS APPROPRIATE AW 8309563 05/03/94 FARRAND ET AL 395 200 09/09/91 AX 5329313 07/12/94 KEITH 348 422 10/01/93 AY 5329819 07/12/94 PAGE ET AL 395 200 10/30/92 5333212 AZ 07/26/94 LIGTENBERG 382 58 11/17/92 ВА 5333288 74 07/26/94 BOAZ ET AL 395 200 03/27/92 H 88 5341371 08/23/94 SIMPSON 370 85.4 05/24/91 ВС 74 5406279 04/11/95 ANDERSON ET AL 341 51 09/02/92 74 80 5414813 05/09/95 **SHIOBARA** 395 200 11/01/93 Ж-BF 5442790 08/15/95 NOSENCHUCK 395 700 03/09/94 744 BF 5446866 08/29/95 DRAKO ET AL 395 500 01/30/92 *YY* ₿Ġ 5450599 09/12/95 HORVATH ET AL 396 800 06/04/92 BH 5452006 7+4 348 390 10/25/93 09/19/95 AULD *>*+ BI 5461679 10/24/95 NORMILE ET AL 395 850 05/14/93 BJ 744 5481689 01/02/96 STAMM ET AL 395 412 08/13/93 2K 5487064 744 01/23/96 GALAND ET AL 370 60 08/31/94 BL 5490247 02/06/96 TUNG ET AL 395 162 11/24/93 BM TÄYLOR 5497498 03/05/96 395 800 09/28/93 BN 5504869 04/02/98 UCHIDA 395 375 07/15/94 80 5935290 07/09/96 Allen 382 250 09/11/95 82 5566089 10/15/96 HOOGENBOOM 364 514A 10/26/94 BQ. 5579052 11/28/98 heimA 348 416 05/24/94

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APPLICANT ADRIAN P. WISE ET AL

FILING DATE MARCH 7, 1995

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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
Dr. 7H	PO1	0618728	05.10.94	EP			
DNSH	F02	9425935	11/10/94	wo	G08K	+5/00-	NO

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THE .	POI	ELLIOTT J A ET AL: "REAL-TIME SIMULATION OF VIDEOPHONE IMAGE CODING ALGORITHMS ON RECONFIGURASES MULTICOMPUTERS," IEEE PROCEEDINGS E. COMPUTERS & DIGITAL TECRNIQUES, VOL. 139, NO. 3 PART E., 05/01/92, PP 289-279, XP0000306411.
-#	P02	HONG, YANG-CHANG: T.H. PAYNE. A HYBRID APPROACH FOR EFFICIENT DATAFLOW COMPUTING. COMPUTERS AND COMMUNICATIONS, 1990 INT'L PHOENIX CONFERENCE. IEEE PUBLICATIONS, MAY 1990 PP 170-178.
- Ht	P03	KAORU, UCHIDA ET AL: "A PIPELINED DATAFLOW PROCESSOR ARCHITECTURE BASEO ON A VARIABLE LENGTH TOKEN CONCEPT." ARCHITECTURE, UNIVERSITY PARK, AUG. 19 - 19, 1988, VOL. 1, 16 AUGUST 1988, BRIGGS F. A, FP 209-218, XP000079309.
_#	P04	KOPET, TOM: "PROGRAMMABLE ARCHITECTURES FOR REAL-TIME VIDEO COMPRESSION." ATH INTERNATIONAL GONFERENCE ON SIGNAL PROCESSING APPLICATIONS & TECHNOLOGY, VOL. 2, 09/28/93 - 10/01/93, SANTA CLARA. CALIFORNIA, USA, PP 1031-1038.
-34-	POS	MAYER, A.C.: "THE ARCHITECTURE OF A SINGLE-CHIP PROCESSOR ARRAY FOR VIDEOCOMPRESSION." PROCEEDINGS OF THE INTERNATIONAL CONFERENCE OF CONSUMER CLECTRONICS, ROSEMONT, JUNE 8-10, 1993, NO. CONF. 12, 08/06/93, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, PP 294-95, XP0000427624.
-44	P06	NORMILE, JAMES. DAN WRIGHT, IMAGE COMPRESSION USING COARSE GRAIN PARALLEL PROCESSING, ICASSP 1991-ACOLISTICS, SPESCH & SIGNAL PROCESSING CONFERENCE, IEEE PUBLICATIONS, JULY 1991 PP 1121-1124
-44	PO1	TOKUMICHI MURAKAMI ET AL: "A DSP ARCHITECTURAL DESIGN FOR LOW BIT-RATE MOTION VIDEO CODEG;"-1828—TRANSACTIONS ON CIRCUITS AND SYSTEMS, VOL. 18, NO. 10, 10/1/89, PP 1267-1274, XP000088313.
THE	P09	YANG, KUN-MIN. VLSI ARCHITECTURE DESIGN OF A VERSATILE VARIABLE LENGTH DECODING CHIP FOR REAL- TIME VIDEO CODECS, TENCON 1880 1686 REGION 10 COMPLETER AND COMMUNICATION IEEE PUBLICATIONS FEBRUARY 1990, PP 581-554.

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20 H	INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT Wise et al.					
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U.S. PATENT DOCUMENTS

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DNZY	AA	3	8	9	3	٥	4	2	7/1/75	Whitman at al.	331	65	12/12/73
previously filed	48	Э	8	8	a	6	8	6	6/0/76	Belle tala	340	172.5	6-3/74
DN 74	AC	4	1	6	7	7	8	0	8/16/78	Grimsdala et al.	364	521	1/25/77
UN 24	AD	4	1	4	2	2	0	5	2/27/79	linuma	358	13	7/19/77

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34	AG	0	4	6	8	9	8	0	29.01.92	EP .				

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previously cited	AH	Chong, "A Data Flow Architecture For Sigital-Image Processing," WesconTach, Papere No. 4/0, 19/30/04. Anaheim, Galifornia, USA, pp. 4-10
24	Al	P. Ylp, et al., *OiT and OiF Algorithm for Discrete Sine and Cosine Transforms* Proceedings of the International Bymposium on Circuits and Systems, IEEE Press, New York, US, Vol. 2/3, 5 June 1985.
		Kyoto, JP, pages 941-944
JH_	AJ	Heleh S. Hou, "A Fast Recursive Algorithm for Computing the Discrete Cosine Transform," IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. 35, No. 10, October 1987, IEEE Press, New York, US, pages 1488-1481
previously	AK	Kernori et el., 'An Elestia Pipelino Mechanism 97 Self-Timed Sirculta, IEES Journal Of Salid State Sirculta Vol. 20, No. 1, 2/88, New York, NY. USArpp. 111-117
<u> </u>	AL	A. Gupta et al., "A Past Recursive Algorithm for the Discrete Sine Transform," IEEE Transactions on Acoustics, Speach, and Signal Processing, Vol. 38, No. 3, March 1990, 1882 Press, New York, US, page
سللب	+	553-557
74+	АМ	H.R. Wu, et al., "A Two Dimensional Fast Cosine Transform Algorithm Based on Hou's Approach," 1225 Transaction on Acoustics, Speech, and Signal Processing, Vol. 39, No. 2, February 1991, IEEE Press, No. York, US, pages 544-546

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7	1714	AQ	4	1	9	S	4	4	8	4/1/80	Whitehouse et al.	358	135	5/15/78
u	346	AP	4	2	1	5	3	8	9	7/29/80	lijima	358	146	12/15/78
	<i>></i> +∕-	AQ	4	3	0	2	7	7	5	11/24/81	Widergren et al.	358	136	12/15/78
	46	, AR	4	3	3	4	2	4	6	6/8/82	Saran	358	261	5/16/80
7	-24 -	AS	#	4	3	3	3	0	8	2/21/84	Hirata	331	17	12/3/81
†	*	AT	4	4	3	7	٥	7	2	3/13/84	Asami	331	1A	9/21/82
T	24	AU	4	4	9	5	6	2	9	1/22/8\$	Zasio et al.	377	70	1/25/83
ל	SH+	AV	4	5	4	0	9	0	3	9/10/85	Cooke et al.	307	465	10/17/83

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Form PTO-1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY, DOCKET NO. PDDD P941004(EP)USC1CIP	SERIAL NO. 09/35/239
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT Wise et al.	
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4510	BI	4	5	.8	0	0	6	6	4/1/86	8emdt .	307	276	3/22/84
124	. aJ	4	8	3	0	1	9	8	12/15/86	(Yuan	364	200	2/21/84 .
12	₽K	4	5	4	6	١	5	1	2/24/87	Welles II et al.	358	149	2/1/85
45	84	4	6	7	9	1	6	3	7/7/87	Amould et al.	364	726	3/8/85
**	ВМ	4	7	4	7	0	7	0	5/24/88	Trattler et al.	364	900	1/9/84
44	BN	4	7	8	5	3	4	9	11/15/88	Kaith et al.	358	136	10/5/87
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<i>- 24</i>	B P	4	7	9	9	8	7	7	1/24/89	Frederiksen .	273	16	2/24/88
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2#	88	4	8	2	9	4	6	5	5/9/89	Knauer et al.	354	725	8/19/86
24	8\$	4	8	3	1	4	4	0	5/16/89	Borgers et al.	358	133	3/24/88
-74	BT	• 4	8	6	6	5	1	0	9/12/89	Goodfellow et al.	358	13	9/30/88
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W 244	8V	a	8	8	7	2	2	4	12/12/89	Okano et al.	364	518	8/24/87

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Form PTO-1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. POOD P941004(EP)USC1CIP	SERIAL NO. 170/30 1239
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74	CE	4	9	0	3	0	1	8	2/20/90	Wiebach et al.	341	51	7/16/86
24	ÇF	4	9	1	2	6	6	8	3/27/90	Aubie et al.	364	725	6/5/87
146	CG	4	9	2	2	3	4	1	8/1/90	Strobach	358	136	9/26/88
24	СН	4	9	2	4	2	9	8	5/8/90	Kitamura	358	12	9/15/88
74	CI	4	9	2	4	3	٥	8	5/8/90	Fauchtwanger	358	133	3/7/89
2#	CJ	4	9	7	5	5	9	5	12/4/90	Roberts et al.	307	272.2	7/20/88
46	СК	4	9	9	1	1	1	2	2/5/91	Callemyn	364	518	12/21/88
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74	СМ	5	0	2	7	2	1	2	6/25/91	Mariton et al.	358	183	12/6/89
344	CN	5	0	3	8	2	٥	9	8/6/91	Hang	358	136	8/6/91
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244	СР	5	0	5	7	7	9	3	10/15/91	Cowley et al.	331	1A	10/29/90
744	ca	5	0	6	0	2	4	2	10/22/91	Arbeiter	375	122	2/24/89
1.24	СЯ	5	0	8	1	4	5	0	1/14/92	Luces et al.	340	728	3/9/80
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Form PTO-14-19 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO. 09/307239
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DH 277	CŽ	5	0	g	1	.7	2	1	2/25/92	Hamori	340	727	12/22/88
244	DA	5	1	0	7	3	4	5	4/21/92	Loo	358	432	5/28/91
74	08	6	1	1	1	2	9	2	5/6/92	Kuriacose et al.	358	133	2/27/91
244	DC	5	1	1	3	2	5	5	5/12/92	Nagata et al.	358	136	5/11/90
74	00	5	1	2	2	8	7	3	6/16/92	Galin	358	133	2/19/91
24	06	5	1	2	2	8	7	5	8/16/92	Raychaudhuri et al.	358	133	2/27/91
7#	DF	5	1	2	4	7	9	0	6/23/92	Nakayama	388	133	2/20/90
146	DĢ	5	1	2	6	8	4	2	6/30/92	Andrews at al.	358	133	12/26/90
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24	DI	5	1	3	0	5	6	8.	7/14/92	Miller et al.	307	272.2	11/5/90
24	01	5	1	3	4	4	B	7	7/28/92	Taguchi et al.	358	209	11/5/90
24	ОК	5	1	3	4	8	9	7	7/28/92	Scheffler	395	425	12/10/90
24	DL	5	7	3	В	3	7	1	8/4/92	Savatler et al.	358	133	3/16/90
744	DM	5	1	4	2	3	8	0	8/25/92	Sakagami et al.	358	432	10/18/90
24	DN	5	1	4	6	3	2	S	9/8/92	Ng	358	135	4/29/91
\$115H	00	5	1	4	6	3	2	6	9/8/92	Hasegawa	358	135	11/13/90

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34	AO	Komori et al., "An Elestic Pipalline Mech Circuits, Vol. 23, No. 1, 2/88, New York	anism By Self-Timed Circuits, c, NY, USA, pp. 111-117	IEEE Journal Of Solid-State
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